

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/883,1198

CRF Processing Date: 3/25/2003

Edited by: \_\_\_\_\_

Verified by: \_\_\_\_\_

RECEIVED  
APR 22 2003  
TECH CENTER 1600/2000

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☒ Other: Sequence 7 - inserted hard return

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

APR 2 2 2003

TECH CENTER 800/280



OIPE

RAW SEQUENCE LISTING

DATE: 03/25/2003

PATENT APPLICATION: US/09/883,119B

TIME: 17:53:44

Input Set : N:\Crf4\03192003\I883119B.raw

Output Set: N:\CRF4\03252003\I883119B.raw

1 <118> APPLICANT: Ellington, Andrew

2 Hesselberth, Jay

3 Marshall, Kris

4 Robertson, Michael

5 Foster, Leina

6 Davidson, Eric

7 Cox, J. Colin

8 Seidel, Timothy

9 <119> TITLE OF INVENTION: Regulatable, Catalytically Active Nucleic Acids

10 <130> FILE REFERENCE: 13239-301C

C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/883,119B

12 <141> CURRENT FILING DATE: 2003-03-11

13 <150> PRIOR APPLICATION NUMBER: 60/212,097

14 <151> PRIOR FILING DATE: 2000-06-15

15 <160> NUMBER OF SEQ ID NOS: 66

16 <170> SOFTWARE: PatentIn version 3.1

17 <210> SEQ ID NO: 1

18 <211> LENGTH: 129

19 <212> TYPE: LNA

20 <213> ORGANISM: Artificial Sequence

21 <216> FEATURE:

22 <220> OTHER INFORMATION: Engineered Aptazyme

23 <400> SEQUENCE: 1

24 taattttac cgggatttat atccagctgc atgtaccat gcagagcaga ctatatctcc 60

25 caattgttaa agcaagttgt ctatcgtttc gagtcaattg accctactcc ccaaagggat 120

26 agtgcgttag 129

27 <210> SEQ ID NO: 2

28 <211> LENGTH: 131

29 <212> TYPE: RNA

30 <213> ORGANISM: Artificial Sequence

31 <216> FEATURE:

32 <220> OTHER INFORMATION: Engineered Aptazyme

33 <400> SEQUENCE: 2

34 gacttgagta aaggagactt atacttgtaa tctatctaaa cggggaacct ctctagtaga 60

35 caatcccttg ctaaaattata ccagcatcgt ctgtatgcc ttggcagata aatgcctaac 120

36 taattatcct 131

37 <210> SEQ ID NO: 3

38 <211> LENGTH: 75

39 <212> TYPE: LNA

40 <213> ORGANISM: Artificial Sequence

41 <216> FEATURE:

42 <220> OTHER INFORMATION: Engineered Aptazyme

43 <400> SEQUENCE: 3

## RAW SEQUENCE LISTING

DATE: 03/25/2003

PATENT APPLICATION: US/09/883,119B

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Input Set : N:\CrF4\03192003\I883119B.raw

Output Set: N:\CRF4\03252003\I883119B.raw

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47          gataaataaga ctcaatatag ggaatcaacgc tcaagtagatg ttttcttggg ttaattgagg      60
48          cctgaggtata aggtg      75
50 (210) SEQ ID NO: 4
51 (211) LENGTH: 59
52 (212) TYPE: DNA
53 (213) ORGANISM: Artificial Sequence
54 (214) FEATURE:
55 (215) OTHER INFORMATION: Engineered Aptazyme
56 (216) FEATURE:
57 (217) NAME/KEY: misc_feature
58 (218) OTHER INFORMATION: Engineered Sequence
59 (219) SEQUENCE: 4
60          cttaactaca atatgaacta acgtagcata tgaacgaata ttaaacggta gcattatggt      60
61          cagataaagt cgtaaatctt accccggaa      89
62 (210) SEQ ID NO: 5
63 (211) LENGTH: 131
64 (212) TYPE: DNA
65 (213) ORGANISM: Artificial Sequence
66 (214) FEATURE:
67 (215) OTHER INFORMATION: Engineered Aptazyme
68 (216) FEATURE:
69 (217) NAME/KEY: misc_feature
70 (218) LOCATION: (17)..(77)
71 (219) OTHER INFORMATION: n=a,c,t, or g
72 (220) FEATURE:
73 (221) NAME/KEY: misc_feature
74 (222) LOCATION: (103)..(108)
75 (223) OTHER INFORMATION: n=a,c,t, or g
76 (224) SEQUENCE: 5
77          ccttgagat at aggtgactt ataactagtaa tctatctaaa cgggggaacct ctctagtaga      60
W--> 79          caatccccgtg ctaaatnata ccagcatcgt cttgatgccc ttggcagnta aatgcctaac      120
80          gactatccct      131
81 (210) SEQ ID NO: 6
82 (211) LENGTH: 101
83 (212) TYPE: DNA
84 (213) ORGANISM: Artificial Sequence
85 (214) FEATURE:
86 (215) OTHER INFORMATION: Engineered Aptazyme
87 (216) FEATURE:
88 (217) NAME/KEY: misc_feature
89 (218) OTHER INFORMATION: Engineered Aptazyme
90 (219) FEATURE:
91 (220) NAME/KEY: misc_feature
92 (221) OTHER INFORMATION: Engineered Sequence
93 (222) SEQUENCE: 6
94          cttagctaca atatgaacta acgtagcata tgaacgaata ttaaacggta gtattatggt      60
95          cagataaagt cgtaaatctt accccggaat tctatccagc t      101
96 (210) SEQ ID NO: 7
97 (211) LENGTH: 116

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## RAW SEQUENCE LISTING

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TIME: 17:53:44

Input Set : N:\Crf4\03192003\I883119B.raw

Output Set: N:\CRF4\03252003\I883119B.raw

100 <212> TYPE: DNA  
 101 <213> ORGANISM: Artificial Sequence  
 102 <214> FEATURE:  
 103 <215> OTHER INFORMATION: Engineered Aptazyme  
 104 <216> FEATURE:  
 105 <217> NAME/KEY: nsc\_feature  
 106 <218> LOCATION: (37)..(37)  
 107 <219> OTHER INFORMATION: n=a, t, g, or c  
 108 <220> SEQUENCE: 7

W--> 109        **ttctaatacg actcactata ggacctcggc gaaagcnnnn nnnnnnnnnn nnnnnnnnnn**        60  
 110        nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn tttaggtgctt cgtgatgtcc agtcgc        116  
 111 <210> SEQ ID NO: 8  
 112 <211> LENGTH: 20  
 113 <212> TYPE: DNA  
 114 <213> ORGANISM: Artificial Sequence  
 115 <214> FEATURE:  
 116 <215> OTHER INFORMATION: primer  
 117 <220> SEQUENCE: 8  
 118        **ttctaatacg actcactata**        20  
 119 <210> SEQ ID NO: 9  
 120 <211> LENGTH: 16  
 121 <212> TYPE: DNA  
 122 <213> ORGANISM: Artificial Sequence  
 123 <214> FEATURE:  
 124 <215> OTHER INFORMATION: primer  
 125 <220> SEQUENCE: 9  
 126        **gcactcgac atcaagag**        16  
 127 <210> SEQ ID NO: 10  
 128 <211> LENGTH: 36  
 129 <212> TYPE: DNA  
 130 <213> ORGANISM: Artificial Sequence  
 131 <214> FEATURE:  
 132 <215> OTHER INFORMATION: primer  
 133 <220> SEQUENCE: 10  
 134        **ttctaatacg actcactata ggacctcggc gaaagc**        36  
 135 <210> SEQ ID NO: 11  
 136 <211> LENGTH: 80  
 137 <212> TYPE: DNA  
 138 <213> ORGANISM: Artificial Sequence  
 139 <214> FEATURE:  
 140 <215> OTHER INFORMATION: competitor sequence  
 141 <220> SEQUENCE: 11  
 142        **gggaagggan ccacaucaac gaauucgagu cgagaacugg ugcgaauvcg agaaaguca**        60  
 143        **cuacagacuu gacgaagcuu**        80  
 144 <210> SEQ ID NO: 12  
 145 <211> LENGTH: 82  
 146 <212> TYPE: DNA  
 147 <213> ORGANISM: Artificial Sequence  
 148 <214> FEATURE:

## RAW SEQUENCE LISTING

DATE: 03/25/2003

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TIME: 17:53:44

Input Set : N:\CrF4\03192003\I883119B.raw

Output Set: N:\CRF4\03252003\I883119B.raw

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154 <123> OTHER INFORMATION: competitive sequence
155 <400> SEQUENCE: 13
156      gggaaggga ccacaucuac gaauucguag cguagaguau gagagagcca agguacagguu      60
157      caucagagac ugaaggaagc cu      82
158 <110> SEQ ID NO: 13
159 <111> LENGTH: 80
160 <112> TYPE: DNA
161 <113> ORGANISM: Artificial Sequence
162 <114> FEATURE:
163 <123> OTHER INFORMATION: competitive sequence
164 <400> SEQUENCE: 13
165      ggaauaggau ccacaucuac gaauucrica gggcuaaaaga gugcagaguu acuuaguuca      60
166      cuccagagcu gacgaagcuu      80
167 <110> SEQ ID NO: 14
168 <111> LENGTH: 111
169 <112> TYPE: DNA
170 <113> ORGANISM: Artificial Sequence
171 <114> FEATURE:
172 <123> OTHER INFORMATION: competitive sequence
173 <400> SEQUENCE: 14
174      gacuaacuuu rrrgggucuc uuuaaaauuc acaaaauugcu ggaaacuccu uugaggcuag      60
175      gcaaaicgga agggaguuu acaaaauugc uuuaaaaccuu cagagacuag acgugaucuu      100
176      cgaagagagc ccauggggcu uuuaauugau aagguauagu caaaauuugu auguaaauc      180
177      aaaaauuuu aaaaaaaga aaucaurugg g      211
178 <110> SEQ ID NO: 15
179 <111> LENGTH: 80
180 <112> TYPE: DNA
181 <113> ORGANISM: Artificial Sequence
182 <114> FEATURE:
183 <123> OTHER INFORMATION: competitive sequence
184 <124> FEATURE:
185 <201> NAME/KEY: misc feature
186 <202> LOCATION: (17)..(56)
187 <123> OTHER INFORMATION: n=a,c,t, or g
188 <400> SEQUENCE: 15
W--> 192      gggaaggga ccacaucuac gaauucnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnuuca      60
189      cccagagcuu gacgaagcuu      80
190 <110> SEQ ID NO: 16
191 <111> LENGTH: 112
192 <112> TYPE: DNA
193 <113> ORGANISM: Artificial Sequence
194 <114> FEATURE:
195 <123> OTHER INFORMATION: Parental F6 construct
196 <400> SEQUENCE: 16
197      gcttgagat aaggtgactt ataactgtaa tctatctaaa cggggaacct ctctagtaga      60
198      caatccgag ctaaaattgta ggaactgccg gggtctacat aaatgcctaa cgactatccc      100
199      tt      122
200 <110> SEQ ID NO: 17
201 <111> LENGTH: 24

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## RAW SEQUENCE LISTING

DATE: 03/25/2003

PATENT APPLICATION: US/09/883,119B

TIME: 17:53:44

Input Set : N:\Crf4\03192003\I883119B.raw

Output Set: N:\CRF4\03252003\I883119B.raw

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200 <213> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: primer
212 <400> SEQUENCE: 17
213      tttatctagt tatctatcta aacg
214 <210> SEQ ID NO: 18
215 <211> LENGTH: 24
216 <212> TYPE: DNA
217 <213> ORGANISM: Artificial Sequence
218 <220> FEATURE:
219 <223> OTHER INFORMATION: primer
220 <400> SEQUENCE: 19
221      cggggaattc tatccagctg catg
222 <210> SEQ ID NO: 19
223 <211> LENGTH: 24
224 <212> TYPE: DNA
225 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: oligonucleotide
228 <400> SEQUENCE: 19
229      gacttagtat aaggtgactt ataactgtaa ttatatctaaa cgggggaacct ctctagtaga
230      caatcccgta taaatgcct aacgactatc cttt
231 <210> SEQ ID NO: 20
232 <211> LENGTH: 133
233 <212> TYPE: DNA
234 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: oligonucleotide
237 <400> SEQUENCE: 21
238      gacttagtat aaggtgactt ataactgtaa ttatatctaaa cgggggaacct ctctagtaga
239      caatcccgta taaatgtat accagcatcg ttttgatgcc ttggcagata aatgcctaac
240      gactatccct t
241 <210> SEQ ID NO: 21
242 <211> LENGTH: 133
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: oligonucleotide
247 <400> SEQUENCE: 21
248      gacttagtat aaggtgactt ataactgtaa ttatatctaaa cgggggaacct ctctagtaga
249      caatcccgta taaatgtat accagcatcg ttttgatgcc ttggcagata taaatgccta
250      caatcccgta taaatgtat accagcatcg ttttgatgcc ttggcagata taaatgccta
251 <210> SEQ ID NO: 22
252 <211> LENGTH: 119
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: oligonucleotide

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/883,119B

DATE: 03/25/2003  
TIME: 17:53:45

Input Set : N:\Crf4\03192003\I883119B.raw  
Output Set: N:\CRF4\03252003\I883119B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 77,108  
Seq#:7; N Pos. 37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56  
Seq#:7; N Pos. 57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76  
Seq#:7; N Pos. 77,78,79,80,81,82,83,84,85,86  
Seq#:15; N Pos. 27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46  
Seq#:15; N Pos. 47,48,49,50,51,52,53,54,55,56  
Seq#:35; N Pos. 37,38,39,40,41,42,43,44,45,46,47  
Seq#:36; N Pos. 14,15,16,17  
Seq#:37; N Pos. 39,40,41,42,43  
Seq#:41; N Pos. 28  
Seq#:43; N Pos. 31  
Seq#:44; N Pos. 32